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ABSTRACT

This book presents 20 projects for technology education students. The emphasis is on problem solving and hands-on learning through projects dealing with a wide variety of technologies/industries, including the following: robotics, information storage and retrieval, communications, transportation, electronics, manufacturing, construction, materials science, product design, and development of industrial models. The individual projects call for students to design and construct the following: cast ring, manipulator, mechanical database, firefly communicator, hot air balloon, commuter scooter, pyramid pinhole camera, geodesic dome, 5-strut connector, electronic ear, 20-second timer, coin sorter, hygrometer, mini transmitter, foot mouse, solar water skimmer, water elevator, acoustical insulator, 3-piece puzzle, and futuristic product. Each project description includes some or all of the following: background information (including real-world parallels and applications), list of recommended safety precautions, detailed construction procedure, lists of materials and tools/equipment required, and student review questions. A companion teacher's guide is also included. (MN)

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